

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An electrode for a fuel cell comprising:

a gas diffusion layer; and

a catalyst layer formed over said gas diffusion layer;

wherein said catalyst layer comprises a first carbon particle having a hydrophilic surface, a catalytic metal supported on said first carbon particle, an ion exchange resin and a second carbon particle having a water-repellent surface;

a content of said second carbon particle in the catalyst layer is in a range of 10wt.% to 50wt.% with respect to a weight of the entire catalyst layer; and

a content of the first carbon particle, the catalytic metal and the ion exchange resin is at least 50wt.% with respect to a weight of the entire catalyst layer, wherein

the electrode does not include any additional water-repellent materials other than the second carbon particles.

2. (Original) The electrode for a fuel cell as set forth in Claim 1, wherein an average value of lattice spacing of the [002] plane, d_{002} , of said second carbon particle is not less than 0.337nm but not greater than 0.348nm.

3. (Original) The electrode for a fuel cell as set forth in Claim 1, wherein a crystallite size in a direction of c-axis, $L_c(002)$, of said second carbon particle is not less than 3nm but not greater than 18nm.

4. (Original) The electrode for a fuel cell as set forth in Claim 2, wherein a crystallite size in a direction of c-axis, $L_c(002)$, of said second carbon particle is not less than 3nm but not greater than 18nm.

5. (Original) The electrode for a fuel cell as set forth in Claim 1, wherein said gas diffusion layer also includes said first carbon particle and said second carbon particle.

6. (Original) The electrode for a fuel cell as set forth in Claim 2, wherein said gas diffusion layer also includes said first carbon particle and said second carbon particle.

7. (Original) The electrode for a fuel cell as set forth in Claim 3, wherein said gas diffusion layer also includes said first carbon particle and said second carbon particle.

8. (Original) The electrode for a fuel cell as set forth in Claim 4, wherein said gas diffusion layer also includes said first carbon particle and said second carbon particle.

9. (Original) A fuel cell comprising:
an electrode for a fuel cell on fuel supply side;
an electrode for a fuel cell on oxygen supply side; and
a solid polymer electrolyte membrane placed between said electrodes;
wherein at least said electrode for a fuel cell on oxygen supply side is said electrode for a fuel cell as set forth in Claim 1.

10. (Original) A fuel cell comprising:
an electrode for a fuel cell on fuel supply side;
an electrode for a fuel cell on oxygen supply side; and
a solid polymer electrolyte membrane placed between said electrodes;
wherein at least said electrode for a fuel cell on oxygen supply side is said electrode for a fuel cell as set forth in Claim 2.

11. (Original) A fuel cell comprising:
an electrode for a fuel cell on fuel supply side;
an electrode for a fuel cell on oxygen supply side; and
a solid polymer electrolyte membrane placed between said electrodes;
wherein at least said electrode for a fuel cell on oxygen supply side is said electrode for a fuel cell as set forth in Claim 3.

12. (Original) A fuel cell comprising:
an electrode for a fuel cell on fuel supply side;
an electrode for a fuel cell on oxygen supply side; and
a solid polymer electrolyte membrane placed between said electrodes;
wherein at least said electrode for a fuel cell on oxygen supply side is said electrode for a fuel cell as set forth in Claim 4.

13. (Original) A fuel cell comprising:
an electrode for a fuel cell on fuel supply side;

an electrode for a fuel cell on oxygen supply side; and
a solid polymer electrolyte membrane placed between said electrodes;
wherein at least said electrode for a fuel cell on oxygen supply side is said electrode for a
fuel cell as set forth in Claim 5.

14. (Original) A fuel cell comprising:
an electrode for a fuel cell on fuel supply side;
an electrode for a fuel cell on oxygen supply side; and
a solid polymer electrolyte membrane placed between said electrodes;
wherein at least said electrode for a fuel cell on oxygen supply side is said electrode for a
fuel cell as set forth in Claim 6.

15. (Original) A fuel cell comprising:
an electrode for a fuel cell on fuel supply side;
an electrode for a fuel cell on oxygen supply side; and
a solid polymer electrolyte membrane placed between said electrodes;
wherein at least said electrode for a fuel cell on oxygen supply side is said electrode for a
fuel cell as set forth in Claim 7.

16. (Original) A fuel cell comprising:
an electrode for a fuel cell on fuel supply side;
an electrode for a fuel cell on oxygen supply side; and
a solid polymer electrolyte membrane placed between said electrodes;

wherein at least said electrode for a fuel cell on oxygen supply side is said electrode for a fuel cell as set forth in Claim 8.